

F-2

**URBEMIS2002 Model Printouts, prepared by BonTerra Consulting, February 11,
2007**

Northlake_URBEMIS Result.txt

Page: 1
02/11/2007 1:35 PM

URBEMIS 2002 For windows 8.7.0

File Name: P:\Northlake Air Quality
Files\Nothlake_Opeational_v2.urb
Project Name: Northlake_Operational_v2
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

PM10 *** 2005 ***	PM10 ***	ROG	NOX	CO	SO2	PM10 TOTAL
EXHAUST	DUST					
TOTALS (lbs/day,unmitigated)		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
TOTALS (lbs/day, mitigated)		0.00	0.00	0.00	0.00	0.00
0.00	0.00					

PM10 *** 2006 ***	PM10 ***	ROG	NOX	CO	SO2	PM10 TOTAL
EXHAUST	DUST					
TOTALS (lbs/day,unmitigated)		759.37	1,329.60	1,680.67	0.22	61.12
58.53	2.59					
TOTALS (lbs/day, mitigated)		589.75	801.26	335.13	0.22	4.50
1.91	2.59					

AREA SOURCE EMISSION ESTIMATES

	ROG	NOX	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	149.98	20.60	58.43	0.57	0.23

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOX	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	159.53	171.17	1,880.82	1.10	167.13

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOX	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	309.51	191.78	1,939.25	1.68	167.36

Page: 2
02/11/2007 1:35 PM

URBEMIS 2002 For windows 8.7.0

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Page 1

Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

CONSTRUCTION EMISSIONS ESTIMATES							PM10
PM10 ***	2005	PM10 ***	ROG	NOx	CO	SO2	TOTAL

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EXHAUST	DUST					
TOTALS (tpy, unmitigated)		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
TOTALS (tpy, mitigated)		0.00	0.00	0.00	0.00	0.00
0.00	0.00					

PM10	PM10					PM10
*** 2006 ***		ROG	NOX	CO	SO2	TOTAL
EXHAUST	DUST					
TOTALS (tpy, unmitigated)		87.02	87.87	116.52	0.01	4.13
3.87	0.26					
TOTALS (tpy, mitigated)		75.83	53.03	27.72	0.01	0.39
0.13	0.26					

AREA SOURCE EMISSION ESTIMATES						
TOTALS (tpy, unmitigated)	ROG	NOX	CO	SO2	PM10	
	64.59	4.82	80.44	0.23	11.10	

OPERATIONAL (VEHICLE) EMISSION ESTIMATES						
TOTALS (tpy, unmitigated)	ROG	NOX	CO	SO2	PM10	
	28.40	35.92	336.95	0.19	30.50	

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES						
TOTALS (tpy, unmitigated)	ROG	NOX	CO	SO2	PM10	
	93.00	40.74	417.39	0.42	41.60	

Page: 4
02/11/2007 1:35 PM

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Project Name: Northlake_Operational_v2
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Pounds/Day - Winter)

Construction Start Month and Year: January, 2005
Construction Duration: 24
Total Land Use Area to be Developed: 0 acres
Maximum Acreage Disturbed Per Day: 0 acres
Single Family Units: 1270 Multi-Family Units: 480
Retail/Office/Institutional/Industrial Square Footage: 304920

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)						PM10	PM10
PM10							
Source	ROG	NOX	CO	SO2	TOTAL		
EXHAUST							
DUST							
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00		

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-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Arch Coatings Off-Gas	0.00	-	-	-	-	
-	-					
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Asphalt Off-Gas	0.00	-	-	-	-	
-	-					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Max lbs/day all phases	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					

*** 2006***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	

Northlake_URBEMIS Result.txt

0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00					

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	187.80	1,307.67	1,492.57	-	58.08
58.08	0.00				
Bldg Const Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08	1.29				
Arch Coatings Off-Gas	552.45	-	-	-	-
-	-				
Arch Coatings Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08	1.29				
Asphalt Off-Gas	2.98	-	-	-	-
-	-				
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00	0.00				
Asphalt On-Road Diesel	0.67	13.17	2.48	0.20	0.30
0.29	0.01				
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00	0.00				
Maximum lbs/day	759.37	1,329.60	1,680.67	0.22	61.12
58.53	2.59				
Max lbs/day all phases	759.37	1,329.60	1,680.67	0.22	61.12
58.53	2.59				

Page: 5
02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '05

Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '06

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06

Northlake_URBEMIS Result.txt

SubPhase Architectural Coatings Duration: 12 months

Start Month/Year for SubPhase Asphalt: Jan '06

SubPhase Asphalt Duration: 6 months

Acres to be Paved: 150

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

						PM10	PM10
						PM10	
Source	PM10	ROG	NOx	CO	SO2	TOTAL	
EXHAUST DUST							
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust		-	-	-	-	0.00	
- 0.00							
Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00 0.00							
On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Phase 2 - Site Grading Emissions							
Fugitive Dust		-	-	-	-	0.00	
- 0.00							
Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00 0.00							
On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00 0.00							
Bldg Const Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Arch Coatings Off-Gas		0.00	-	-	-	-	
- -							
Arch Coatings Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Asphalt Off-Gas		0.00	-	-	-	-	
- -							
Asphalt Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00 0.00							
Asphalt On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Asphalt worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							
Max lbs/day all phases		0.00	0.00	0.00	0.00	0.00	
0.00 0.00							

*** 2006***

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Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Page: 6

02/11/2007 1:35 PM

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	18.78	784.60	149.26	-	1.74
1.74 0.00					
Bldg Const Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08 1.29					
Arch Coatings Off-Gas	552.45	-	-	-	-
- -					
Arch Coatings Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08 1.29					
Asphalt Off-Gas	2.98	-	-	-	-
- -					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Asphalt On-Road Diesel	0.07	7.90	0.25	0.20	0.02
0.01 0.01					
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Maximum lbs/day	589.75	801.26	335.13	0.22	4.50
1.91 2.59					
Max lbs/day all phases	589.75	801.26	335.13	0.22	4.50
1.91 2.59					

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)

Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)

Phase 2: Soil Disturbance: Water exposed surfaces - 3x daily

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Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 3x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 45.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '05

Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '06

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06

SubPhase Architectural Coatings Duration: 12 months

Start Month/Year for SubPhase Asphalt: Jan '06

SubPhase Asphalt Duration: 6 months

Acres to be Paved: 150

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Northlake_URBEMIS Result.txt

Page: 8
02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES (winter Pounds per Day, Unmitigated)					
Source	ROG	NOX	CO	SO2	PM10
Natural Gas	1.57	20.34	8.99	0	0.04
Hearth	993.30	33.65	1,816.49	4.32	270.76
Landscaping - No winter emissions					
Consumer Prdcts	85.62	-	-	-	-
Architectural Coatings	55.25	-	-	-	-
TOTALS(lbs/day,unmitigated)	1,135.73	53.99	1,825.48	4.32	270.80

Page: 9
02/11/2007 1:35 PM

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOX	CO	SO2	PM10
Single family housing	109.69	183.35	1,316.10	0.67	123.45
Apartments low rise	29.96	49.96	358.65	0.18	33.64
Industrial park	8.21	14.82	102.57	0.05	10.04
TOTAL EMISSIONS (lbs/day)	147.86	248.13	1,777.32	0.91	167.13

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	423.33	9.57 trips/dwelling unit	1,270.00	12,153.90
Apartments low rise	30.00	6.90 trips/dwelling unit	480.00	3,312.00
Industrial park		63.11 trips/acres	14.00	883.54
Sum of Total Trips				16,349.44
Total Vehicle Miles Traveled				110,094.09

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10	3.30	94.00	2.70

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Light Truck	3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck	5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy	8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy	10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy	14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy	33,001-60,000	0.90	0.00	11.10	88.90
Line Haul >	60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus		0.10	0.00	0.00	100.00
Motorcycle		1.70	82.40	17.60	0.00
School Bus		0.10	0.00	0.00	100.00
Motor Home		1.20	8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Industrial park	41.5	20.8	37.8
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Page: 10

02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 3x daily

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas

Northlake_URBEMIS Result.txt

recirculation(EGR)
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter
has been changed from off to on.
Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas
recirculation(EGR)
has been changed from off to on.
Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter
has been changed from off to on.
Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas
recirculation(EGR)
has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

Page: 11
02/11/2007 1:35 PM

URBEMIS 2002 For Windows 8.7.0

File Name: P:\Northlake Air Quality
Files\Northlake_Operational_v2.urb
Project Name: Northlake_Operational_v2
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: January, 2005
Construction Duration: 24
Total Land Use Area to be Developed: 0 acres
Maximum Acreage Disturbed Per Day: 0 acres
Single Family Units: 1270 Multi-Family Units: 480
Retail/Office/Institutional/Industrial Square Footage: 304920

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

PM10	PM10						
Source	Source	ROG	NOx	CO	SO2	TOTAL	
EXHAUST	DUST						
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust		-	-	-	-	0.00	
-	0.00						
Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00	0.00						
On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						

Phase 2 - Site Grading Emissions

		Northlake_URBEMIS Result.txt				
Fugitive Dust	-	-	-	-	-	0.00
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Phase 3 - Building Construction						
Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Arch Coatings Off-Gas	0.00	-	-	-	-	
-	-					
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Asphalt Off-Gas	0.00	-	-	-	-	
-	-					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Max lbs/day all phases	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
*** 2006***						
Phase 1 - Demolition Emissions						
Fugitive Dust	-	-	-	-	0.00	
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Phase 2 - Site Grading Emissions						
Fugitive Dust	-	-	-	-	0.00	
-	0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00	0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	
0.00	0.00					
Phase 3 - Building Construction						
Bldg Const Off-Road Diesel	187.80	1,307.67	1,492.57	-	58.08	
58.08	0.00					

		Northlake_URBEMIS Result.txt				
Bldg Const Worker Trips	0.08 1.29	7.74	4.38	92.81	0.01	1.37
Arch Coatings Off-Gas	-	552.45	-	-	-	-
Arch Coatings Worker Trips	0.08 1.29	7.74	4.38	92.81	0.01	1.37
Asphalt Off-Gas	-	2.98	-	-	-	-
Asphalt Off-Road Diesel	0.00 0.00	0.00	0.00	0.00	-	0.00
Asphalt On-Road Diesel	0.29 0.01	0.67	13.17	2.48	0.20	0.30
Asphalt worker Trips	0.00 0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12
Max lbs/day all phases	58.53 2.59	759.37	1,329.60	1,680.67	0.22	61.12

Page: 12
02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jan '05
Phase 2 Duration: 12 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '06
Phase 3 Duration: 12 months
Start Month/Year for SubPhase Building: Jan '06
SubPhase Building Duration: 6 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06
SubPhase Architectural Coatings Duration: 12 months
Start Month/Year for SubPhase Asphalt: Jan '06
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 150
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

PM10

PM10

PM10

Source		Northlake_URBEMIS Result.txt			SO2	TOTAL
EXHAUST	DUST	ROG	NOx	CO		
*** 2005***						
Phase 1 - Demolition Emissions						
Fugitive Dust		-	-	-	-	0.00
-	0.00					
Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00	0.00					
On-Road Diesel		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Phase 2 - Site Grading Emissions						
Fugitive Dust		-	-	-	-	0.00
-	0.00					
Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00	0.00					
On-Road Diesel		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Phase 3 - Building Construction						
Bldg Const Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00	0.00					
Bldg Const Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Arch Coatings Off-Gas		0.00	-	-	-	-
-	-					
Arch Coatings Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Asphalt Off-Gas		0.00	-	-	-	-
-	-					
Asphalt Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00	0.00					
Asphalt On-Road Diesel		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Asphalt Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Max lbs/day all phases		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
*** 2006***						
Phase 1 - Demolition Emissions						
Fugitive Dust		-	-	-	-	0.00
-	0.00					
Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00	0.00					
On-Road Diesel		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Worker Trips		0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Maximum lbs/day		0.00	0.00	0.00	0.00	0.00
0.00	0.00					

Northlake_URBEMIS Result.txt

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Page: 13

02/11/2007 1:35 PM

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	18.78	784.60	149.26	-	1.74
1.74 0.00					
Bldg Const Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08 1.29					
Arch Coatings Off-Gas	552.45	-	-	-	-
- -					
Arch Coatings Worker Trips	7.74	4.38	92.81	0.01	1.37
0.08 1.29					
Asphalt Off-Gas	2.98	-	-	-	-
- -					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Asphalt On-Road Diesel	0.07	7.90	0.25	0.20	0.02
0.01 0.01					
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Maximum lbs/day	589.75	801.26	335.13	0.22	4.50
1.91 2.59					
Max lbs/day all phases	589.75	801.26	335.13	0.22	4.50
1.91 2.59					

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 3x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)
Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)

Northlake_URBEMIS Result.txt

Phase 2: Unpaved Roads: Water all haul roads 3x daily
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 45.0%)
 Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)
 Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
 Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
 Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter
 Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)
 Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
 Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)
 Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '05

Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
-----	------	------------	-------------	-----------

Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '06

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06

SubPhase Architectural Coatings Duration: 12 months

Start Month/Year for SubPhase Asphalt: Jan '06

SubPhase Asphalt Duration: 6 months

Acres to be Paved: 150

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Page: 14

02/11/2007 1:35 PM

Page: 15

02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
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	Northlake_URBEMIS Result.txt				
Natural Gas	1.57	20.34	8.99	0	0.04
Hearth - No summer emissions					
Landscaping	7.55	0.26	49.44	0.57	0.20
Consumer Prdcts	85.62	-	-	-	-
Architectural Coatings	55.25	-	-	-	-
TOTALS(lbs/day,unmitigated)	149.98	20.60	58.43	0.57	0.23

Page: 16
02/11/2007 1:35 PM

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	117.68	126.50	1,391.41	0.82	123.45
Apartments low rise	34.33	34.47	379.17	0.22	33.64
Industrial park	7.52	10.20	110.25	0.07	10.04
TOTAL EMISSIONS (lbs/day)	159.53	171.17	1,880.82	1.10	167.13

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	423.33	9.57 trips/dwelling unit	1,270.00	12,153.90
Apartments low rise	30.00	6.90 trips/dwelling unit	480.00	3,312.00
Industrial park		63.11 trips/acres	14.00	883.54
		Sum of Total Trips		16,349.44
		Total Vehicle Miles Traveled		110,094.09

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20	1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10	3.30	94.00	2.70
Light Truck 3,751- 5,750	16.10	1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10	1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40	0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90	0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.10	0.00	0.00	100.00
Motorcycle	1.70	82.40	17.60	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.20	8.30	83.30	8.40

Northlake_URBEMIS Result.txt

Travel Conditions

	Residential			Commercial		
	Home- Work	Home- Shop	Home- Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Industrial park				41.5	20.8	37.8

Page: 17
02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Water all haul roads 3x daily

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

Northlake_URBEMIS Result.txt
has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.

Page: 18
02/11/2007 1:35 PM

URBEMIS 2002 For windows 8.7.0

File Name: P:\Northlake Air Quality
Files\Northlake_Operational_v2.urb
Project Name: Northlake_Operational_v2
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT (Tons/Year)

Construction Start Month and Year: January, 2005
Construction Duration: 24
Total Land Use Area to be Developed: 0 acres
Maximum Acreage Disturbed Per Day: 0 acres
Single Family Units: 1270 Multi-Family Units: 480
Retail/Office/Institutional/Industrial Square Footage: 304920

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

						PM10	PM10
						PM10	
Source	PM10	ROG	NOx	CO	SO2	TOTAL	
EXHAUST	DUST						
*** 2005***							
Phase 1 - Demolition Emissions							
Fugitive Dust		-	-	-	-	0.00	
-	0.00						
Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00	0.00						
On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Total tons/year		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Phase 2 - Site Grading Emissions							
Fugitive Dust		-	-	-	-	0.00	
-	0.00						
Off-Road Diesel		0.00	0.00	0.00	-	0.00	
0.00	0.00						
On-Road Diesel		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Worker Trips		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						
Total tons/year		0.00	0.00	0.00	0.00	0.00	
0.00	0.00						

Northlake_URBEMIS Result.txt

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Arch Coatings Off-Gas	0.00	-	-	-	-
- -					
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Asphalt Off-Gas	0.00	-	-	-	-
- -					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total all phases tons/yr	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

*** 2006***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	12.39	86.31	98.51	-	3.83
3.83 0.00					
Bldg Const Worker Trips	0.49	0.26	5.95	0.00	0.09
0.01 0.09					
Arch Coatings Off-Gas	72.92	-	-	-	-
- -					
Arch Coatings Worker Trips	0.98	0.51	11.90	0.00	0.18
0.01 0.17					
Asphalt Off-Gas	0.20	-	-	-	-
- -					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Asphalt On-Road Diesel	0.04	0.79	0.16	0.01	0.02

Northlake_URBEMIS Result.txt

0.02	0.00					
Asphalt	worker Trips	0.00	0.00	0.00	0.00	0.00
0.00	0.00					
Total	tons/year	87.02	87.87	116.52	0.01	4.13
3.87	0.26					
Total	all phases tons/yr	87.02	87.87	116.52	0.01	4.13
3.87	0.26					

Page: 19
02/11/2007 1:35 PM

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Jan '05
Phase 2 Duration: 12 months
On-Road Truck Travel (VMT): 0
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jan '06
Phase 3 Duration: 12 months
Start Month/Year for SubPhase Building: Jan '06
SubPhase Building Duration: 6 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06
SubPhase Architectural Coatings Duration: 12 months
Start Month/Year for SubPhase Asphalt: Jan '06
SubPhase Asphalt Duration: 6 months
Acres to be Paved: 150
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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CONSTRUCTION EMISSION ESTIMATES MITIGATED (tons/year)

PM10	PM10					
Source	Source	ROG	NOx	CO	SO2	TOTAL
EXHAUST	DUST					
*** 2005***						
Phase 1 - Demolition Emissions						
Fugitive Dust		-	-	-	-	0.00
- 0.00						
Off-Road Diesel		0.00	0.00	0.00	-	0.00
0.00 0.00						
On-Road Diesel		0.00	0.00	0.00	0.00	0.00
0.00 0.00						
Worker Trips		0.00	0.00	0.00	0.00	0.00

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0.00	0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Bldg Const Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Arch Coatings Off-Gas	0.00	-	-	-	-
- -					
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Asphalt Off-Gas	0.00	-	-	-	-
- -					
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Asphalt worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Total all phases tons/yr	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

*** 2006***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00
0.00 0.00					

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00
- 0.00					
Off-Road Diesel	0.00	0.00	0.00	-	0.00
0.00 0.00					
On-Road Diesel	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Worker Trips	0.00	0.00	0.00	0.00	0.00
0.00 0.00					
Total tons/year	0.00	0.00	0.00	0.00	0.00

0.00 0.00

Page: 20
02/11/2007 1:35 PM

Phase 3 - Building Construction						
Bldg Const Off-Road Diesel	1.24	51.79	9.85	-	0.11	
0.11 0.00						
Bldg Const Worker Trips	0.49	0.26	5.95	0.00	0.10	
0.01 0.09						
Arch Coatings Off-Gas	72.92	-	-	-	-	
-						
Arch Coatings Worker Trips	0.98	0.51	11.90	0.00	0.18	
0.01 0.17						
Asphalt Off-Gas	0.20	-	-	-	-	
-						
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	
0.00 0.00						
Asphalt On-Road Diesel	0.00	0.47	0.02	0.01	0.00	
0.00 0.00						
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	
0.00 0.00						
Total tons/year	75.83	53.03	27.72	0.01	0.39	
0.13 0.26						
Total all phases tons/yr	75.83	53.03	27.72	0.01	0.39	
0.13 0.26						

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)

Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)

Phase 2: Soil Disturbance: water exposed surfaces - 3x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 50.0%)

Phase 2: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 2: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 2: On-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 2: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)

Phase 2: Unpaved Roads: water all haul roads 3x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 45.0%)

Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)
Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 3: Off-Road Diesel Exhaust: Use diesel particulate filter
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 3: Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

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Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 3: On-Road Diesel Exhaust: Use diesel particulate filter

Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 80.0%)

Phase 3: On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

Percent Reduction(ROG 90.0% NOx 40.0% CO 90.0% SO2 0.0% PM10 85.0%)

Phase 1 - Demolition Assumptions: Phase Turned OFF

Phase 2 - Site Grading Assumptions

Start Month/Year for Phase 2: Jan '05

Phase 2 Duration: 12 months

On-Road Truck Travel (VMT): 0

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Phase 3 - Building Construction Assumptions

Start Month/Year for Phase 3: Jan '06

Phase 3 Duration: 12 months

Start Month/Year for SubPhase Building: Jan '06

SubPhase Building Duration: 6 months

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
4	Graders	174	0.575	8.0
6	Off Highway Trucks	417	0.490	8.0
8	Other Equipment	190	0.620	8.0
8	Rubber Tired Dozers	352	0.590	8.0
3	Rubber Tired Loaders	165	0.465	8.0
30	Scrapers	313	0.660	8.0

Start Month/Year for SubPhase Architectural Coatings: Jan '06

SubPhase Architectural Coatings Duration: 12 months

Start Month/Year for SubPhase Asphalt: Jan '06

SubPhase Asphalt Duration: 6 months

Acres to be Paved: 150

Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
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Page: 21

02/11/2007 1:35 PM

Page: 22

02/11/2007 1:35 PM

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.29	3.71	1.64	0.00	0.01
Hearth	40.71	1.08	74.35	0.18	11.08
Landscaping	0.68	0.02	4.45	0.05	0.02
Consumer Prdcts	15.62	-	-	-	-
Architectural Coatings	7.29	-	-	-	-
TOTALS (tpy, unmitigated)	64.59	4.82	80.44	0.23	11.10

Page: 23

02/11/2007 1:35 PM

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UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Single family housing	20.99	26.54	249.35	0.14	22.53
Apartments low rise	6.00	7.23	67.95	0.04	6.14
Industrial park	1.41	2.14	19.65	0.01	1.83
TOTAL EMISSIONS (tons/yr)	28.40	35.92	336.95	0.19	30.50

Does not include correction for passby trips.

Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2007

Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Single family housing	423.33	9.57 trips/dwelling unit	1,270.00	12,153.90
Apartments low rise	30.00	6.90 trips/dwelling unit	480.00	3,312.00
Industrial park		63.11 trips/acres	14.00	883.54
Sum of Total Trips				16,349.44
Total Vehicle Miles Traveled				110,094.09

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent	Type	Non-Catalyst	Catalyst	Diesel
Light Auto	55.20		1.80	97.80	0.40
Light Truck < 3,750 lbs	15.10		3.30	94.00	2.70
Light Truck 3,751- 5,750	16.10		1.90	96.90	1.20
Med Truck 5,751- 8,500	7.10		1.40	95.80	2.80
Lite-Heavy 8,501-10,000	1.10		0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.40		0.00	50.00	50.00
Med-Heavy 14,001-33,000	1.00		0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.90		0.00	11.10	88.90
Line Haul > 60,000 lbs	0.00		0.00	0.00	100.00
Urban Bus	0.10		0.00	0.00	100.00
Motorcycle	1.70		82.40	17.60	0.00
School Bus	0.10		0.00	0.00	100.00
Motor Home	1.20		8.30	83.30	8.40

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Industrial park	Northlake_URBEMIS Result.txt	41.5	20.8	37.8
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Page: 24
02/11/2007 1:35 PM

Changes made to the default values for Land Use Trip Percentages

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths

Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly

has been changed from off to on.

Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 3x daily

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 2 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: water all haul roads 3x daily

has been changed from off to on.

Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Phase 3 mitigation measure Off-Road Diesel Exhaust: Use diesel particulate filter

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has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use diesel particulate filter

has been changed from off to on.

Phase 3 mitigation measure On-Road Diesel Exhaust: Use cooled exhaust gas recirculation(EGR)

has been changed from off to on.

Changes made to the default values for Area

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2007.